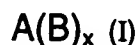


Abstract

The invention relates to novel soluble pigment precursors possessing not only higher thermal stability but also improved solubility characteristics and to a process for mass colouration of high temperature polymers that utilizes these novel soluble pigment precursors.

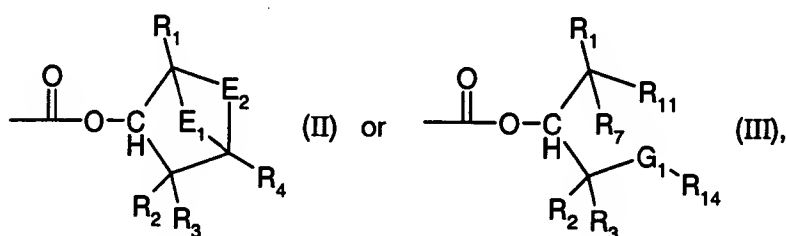
The pigment precursors of the invention are essentially of the formula



where x is an integer from 1 to 8,

A is the radical of a chromophore of the quinacridone, anthraquinone, perylene, indigo, quinophthalone, indanthrone, isoindolinone, isoindoline, dioxazine, azo, phthalocyanine or diketopyrrolopyrrole series, this radical being linked with x B groups via one or more heteroatoms, these heteroatoms being selected from the group consisting of N, O and S and forming part of the radical A, and

B is hydrogen or a group of the formula



although at least one B group is not hydrogen and when x is from 2 to 8 the B groups may be identical or different,

E₁ is oxygen or is selected from the group consisting of methylene, methyleneoxy and ethylene, each member of the group being unsubstituted or substituted by one R₅ or by 2 radicals, R₅ and R₆, or is two separate radicals, R₇ and R₈, R₇ being attached to the same atom as R₁ and R₈ to the same atom as R₄,

E₂ is selected from the group consisting of methylene, ethylene, propylene and butylene, each member of the group being unsubstituted or substituted by one R₉ or by 2

radicals, R_9 and R_{10} , or is two separate radicals, R_{11} and R_{12} , R_{11} being attached to the same atom as R_1 and R_{12} to the same atom as R_4 ,

G_1 is O or N(R_{13}),

R_1 is hydrogen, methyl, ethyl, methoxy or ethoxy,

R_2 and R_3 are independently hydrogen, C_1 - C_8 alkyl, C_1 - C_8 alkoxy, C_1 - C_8 alkoxy- C_2 - C_8 alkylene or C_1 - C_8 alkoxy- C_2 - C_8 alkyleneoxy,

R_4 is hydrogen, C_1 - C_8 alkyl, C_1 - C_8 alkoxy, C_1 - C_8 alkoxy- C_2 - C_8 alkylene, C_1 - C_8 alkoxy- C_2 - C_8 alkyleneoxy, C_5 - C_6 cycloalkyl, C_5 - C_6 cycloalkoxy, phenyl, phenoxy or a 5- or 6-membered, saturated or singly to triply unsaturated heterocyclic radical,

R_5 , R_6 , R_9 , R_{10} and R_{12} are independently C_1 - C_8 alkyl or C_1 - C_8 alkoxy, or R_8 and R_9 together are a direct bond,

R_7 and R_8 are independently hydrogen, C_1 - C_8 alkyl, C_1 - C_8 alkoxy, C_1 - C_8 alkoxy- C_2 - C_8 alkylene or C_1 - C_8 alkoxy- C_2 - C_8 alkyleneoxy,

R_{11} is hydrogen, C_1 - C_8 alkyl or C_1 - C_8 alkoxy,

R_{13} is methyl or ethyl, and

R_{14} is C_1 - C_8 alkyl, C_5 - C_6 cycloalkyl, phenyl or a 5- or 6-membered, saturated or singly to triply unsaturated heterocyclic radical.

Also claimed are some materials pigmented according to the invention.